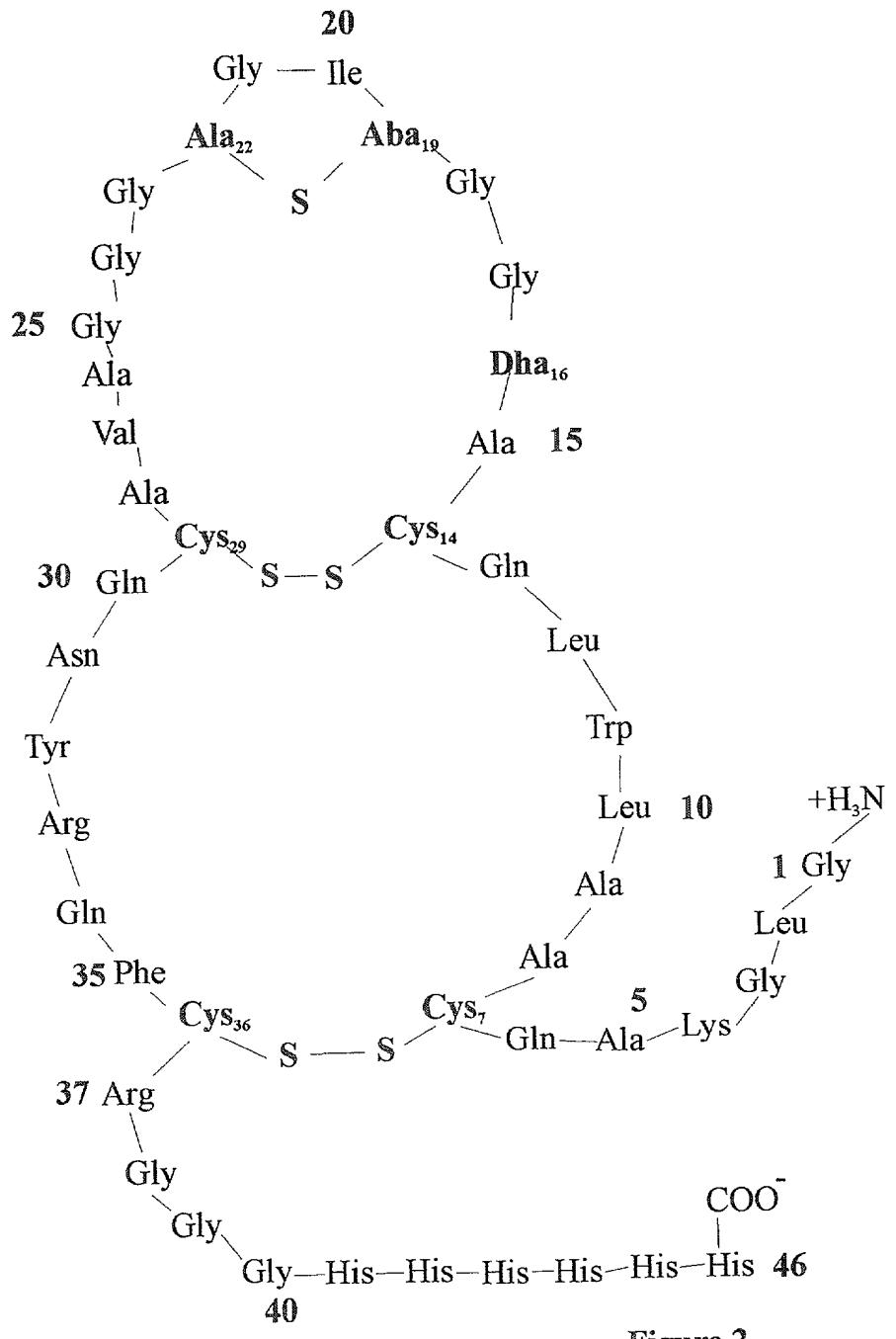


## **Sublancin 168**

**Figure 1**



40

EcoRI

pTZ sequence <-----GAATTCCGGCTCTAAAGCGAT

TCTGAGAGCAGTTCTTACACCAACAGCAGGAACACTGCACTTAAACGAGCTGGATTAACAGGTGGGCATAAG  
 AGTTAAGATAAATTAAACTTATATAACACATCGCTAAAGTTTTGTTAAAAACTTAAAAACAT  
 GGTAAAATTATATAAAAACATAAGAAAGAGTATTATGGAATATGTAGTTATGATAATCATTTATT  
 GCACTTTCTTATTTTACTGTTTCTAAATACACGTTATAGTTTGATGAAAATGCTTAGTCTTAA  
 AATTGGTTATCTAAAACAGAAATTCCAATTAACTAAATAGTTAGTATTAAAGAGTCAGACAAGTATGG  
 AGTTGCAGATAATATCGATTATAAAATTGGTATGCCATATGCTCAACCAGATAGAATTGTTATTGAAACT  
 ACAAAATAAGCGTTCTAGTTTTAAATGGAGCTCAACAATTATTCAAAGTATAAAAGGGTTAGTG  
 TTTGAACATAAAAAGTACCTTCTTACAATAGAAGGTACTTTTGATCTATAATTATTAAAATTAC  
 CTTAAATTATTATCATTATTAACTAAATCCATAATAGTCAATTATTAGTGTATTACAACCAA  

Bam HI ( ~900 bp ) Bam HI

TTC GGATCC <----cat----> GGATTCGTGTATTACAACCAATT TGTTTATTGATAGGTAATAAA  
 GTTTTTTCTATGATTTATGAACAAGTTCTTATAATTTCAAA  
 | Sublancin leader -----> Xho I  
 ACAAAATGGGGAGGTTTACAA **ATGGAAAAGCTATTAAAGAAGTTAAACTCGAGGAACTCGAAAACCAA**  
 | Sun A ----->  
 AAGGTAGT GGATTAGGAAAAGCTCAGTGTGCTGCGTTGGCTACAATGTGCTAGTGGCGGTACAATTGG  
 | Pst I |  
 TTGTGGTGGCGGAGCTGTTGCTTGTCAAAACTATCGTCAATTCTGCAGA TAAAACATTGTAGAGGAAAT  
 |  
 ATTTAAATATTCCCTCATATTAAAGCGGGGATTGAAATTGAATAAGAAAAGAAATATGTCATACTA  
 AACAGTTAATAGTCATGATTGTGGACTAGCTTGTATCTCGTCAATTAAAGTTCTATAACCTTAAC  
 TGGAAATTGATTCTTACTAGACCTAATTGGGGATAAGGAAGGCTAGTTAAGAGACTTAATTGTTATT  
 TTTAAGAAGATGGGGATAAAAACTAGGCCACTTGAATTGCAAGAAAATAAGACATTGAAGCCCTAAAC  
 AAATAAAAGCTCCCTGTATAGCTTGTAGAAGGGAGGAATATGGACATTACATAACAATATCGAAAT  
 TAGAAATAACTATTACTTGTAGTGTACCTGATAAAAGACAAAATAACTAAAATAAAAAAGAGGATT  
 GAAAGTAAATTCAAAACTTATATTAGAAATTGACAAAGAGTCATTGCTGAAAAGAAAAGATCAA  
 AAAAACATTCTACTTTTAAGGACACTTTAGAAATAATTGATCGTTTGATTTATTGAC  
 TCTTGTGCTGTTGGTCTGCTGAAGCTT----->pTZ sequence

HindIII

Figure 3

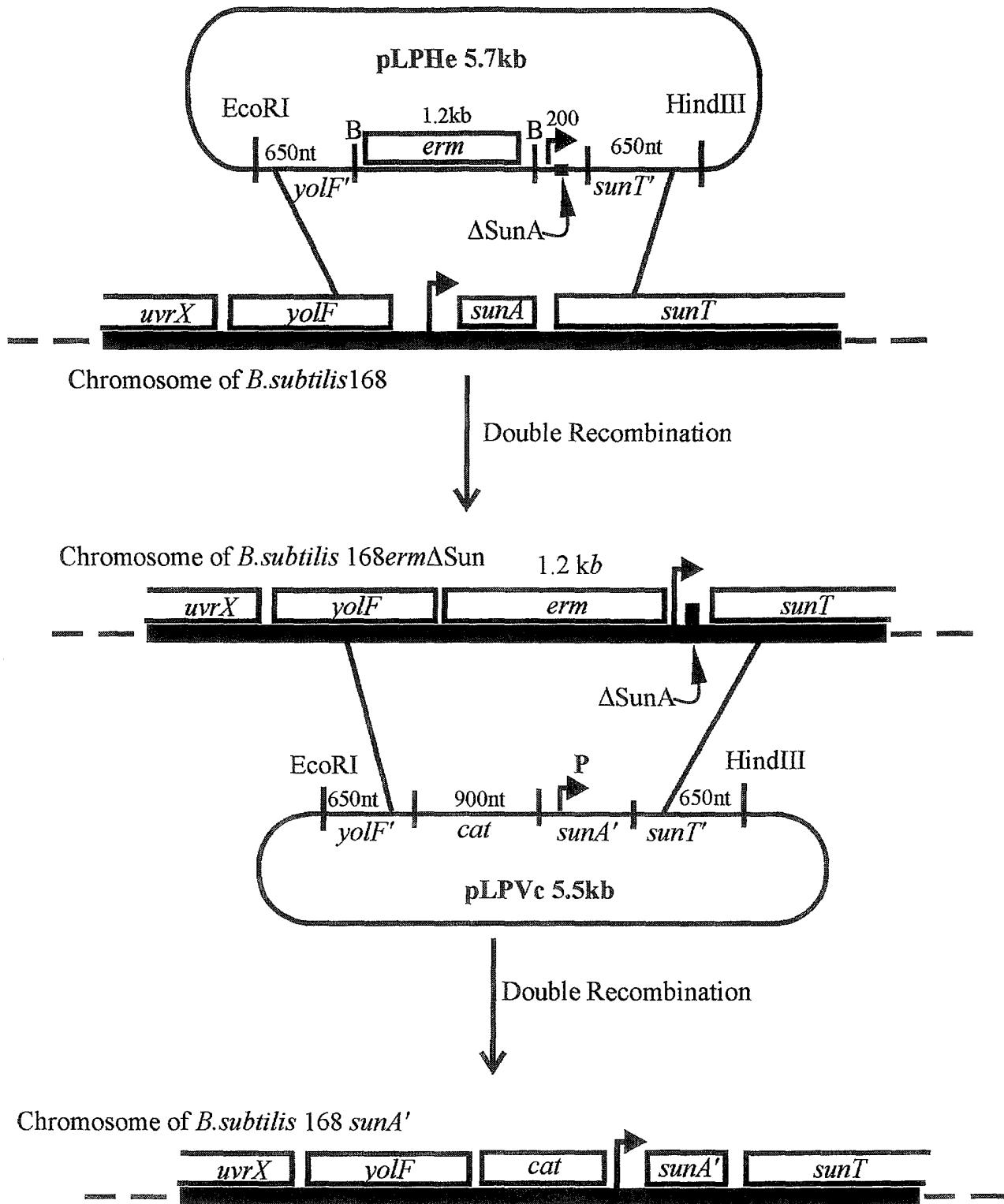
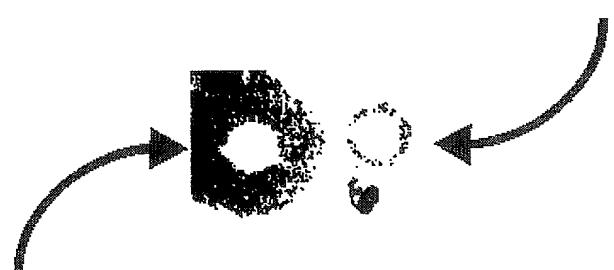


Figure 4

*B. subtilis* EΔSun

A



*B. subtilis* 168

B



*B. subtilis* 168 SunA'

**Figure 5**

← pLPcat Sublancin leader →  
 TTGCAAACAAATGGGGAGGTTTACAA ATGGAAAAGCTATTAAAGAAG  
 MetGluLysIleuPheLysGluV

XbaI sublancin prep-  
 TTAAACTCGAGGAACTCGAAAACCAAAAGGTAGT GGATTAGGAAAAGC  
 AlLysLeuGluGluLeuGluAsnGluLysGlySer GlyLeuGlyLysAl

tide →  
 TCAGTGTGCTGCGTTGGCTACAATGTGCTAGTGGCGGTACAATTGGTT  
 aGlnCysAlaAlaLeuTrpLeuGlnCysAlaSerGlyGlyThrIleGlyC

KasI  
 GTGGTGGCGGCCGTGCTTGTCAAAACTATCGTCAATTCTGTAGAGGT  
 ysGlyGlyGlyAlaValAlaCysGlnAsnTyrArgGlnPheCysArgGly

His Tag → Stop PstI pLPcat →  
 GGTGGTCATCATCATCATCATCATTTAGAGTCCTGCAGATAAAACA  
 GlyGlyHisHisHisHisHisHis \*

**Figure 6**